## Contents

## Volume 50 (1989)

	-
No.	1
170	

Publisher's Note
F. Tanfani, G. Curatola and E. Bertoli (Ancona, Italy), Steady-state fluorescence anisotropy and multifrequency phase fluorometry on oxidixed phosphatidylcholine vesicles
S. Ali and R. Bittman (Flushing, NY), Mixed-chain phosphatidylcholine analogues modified in the choline moiety: preparation of isomerically pure phospholipids with bulky head groups and one acyl chain twice
as long as the other  L.C. Stewart and M. Kates (Ottawa, Canada), Synthesis and characterization of deuterium-labelled dihexa-
decylglycerol and diphytanylglycerol phospholipids
sulfocholine liposomes as a function of sterol structure
A. Hermetter, H. Stütz, R. Franzmair and F. Paltauf (Graz and Linz, Austria), 1-O-Trityl-sn-glycero-3-phosphocholine: a new intermediate for the facile preparation of mixed-acid 1,2-diacylglycero-phosphocholines
A.P.J. Mank, C.M. Lok and J.P. Ward (Vlaardingen, The Netherlands), Synthesis of acyl di- and trigly-cerols
<ul> <li>K.K. Eklund, I.S. Salonen and P.K.J. Kinnunen (Helsinki, Finland), Monovalent cation dependent phase behaviour of dipalmitoylphosphatidylglycerol.</li> <li>S.D. Stamatov (Lund, Sweden), Bis(N,N-diethylamido)-thio- and -selenophosphates of some sterols.</li> </ul>
J.K. Lee and S.E. Schullery (Ypsilanti, MI), Effect of membrane additives on vesicle fusion
No. 2
R.M. Servuss (Berlin, F.R.G.), Color scatterers in egg lecithin water systems
R. Bittman and N.M. Witzke (Flushing, NY), Conversion of methylallyl alcohol into C2-methyl-1,2-di-O-hexadecylglycerophosphocholine, a conformationally restricted phospholipid
T. Araiso and T. Koyama (Sapporo, Japan), A picosecond fluorescence study of the cone angle of the wobbling motion of rod-like fluorophore in lipid bilayers
K. Ohki, K. Takahashi, S. Kato and A. Maesono (Yokohama, Japan), Short- and long-range Ca <sup>2*</sup> -induced lateral phase separations in ternary mixtures of phosphatidic acid phosphatidylcholine and phosphatidylethanolamine
R.A. Johnson, C.E. Burgos and E.G. Nidy (Kalamazoo, MI), An asymmetric synthesis of (R) and (S)-1-alkoxy-2,3-propanediols inducing precursors to platelet activating factor
M. Tomoaia-Cotişel, J. Zsako, E.Chifu and P.J. Quinn (Cluj-Napoca, Romania and London, U.K.), Hysteresis in compression-expansion cycles of distearoylmonogalactosyglycerol monolayers
M. Fausta Omodeo Sale', B. Cestaro, A. Mascherpa, D. Monti and M. Masserini (Milan, Italy),  Enzymatic synthesis and thermotropic behaviour of phosphatidylethanol

G. Albertini, E. Bertoli, G. Curatola, P. Mariani, F. Rustichelli and G. Zolese (Ancona, Italy), Lipidamino acid interactions: a study of tryptophan effects on dipalmitoyl-phosphatidylcholine multilamellar	143
liposomes	143
M.S.F. Lie Ken Jie and D.W.Y. Leung (Hong Kong), Preparation of 1-phenyl alkyl esters of medium and	100
long-chain fatty acids	155
O.H. Abdelmageed, R.I. Duclos Jr., R.G. Griffin, D.J. Siminovitch, M.J. Ruocco and A. Makriyannis (Storrs, CT and Cambridge, MA), Syntheses of <sup>2</sup> H- and <sup>13</sup> C-labeled 1,2-di-O-hexadecyl-sn-glycero-3-	
phosphoethanolamines and 1,2-di-O-hexadecyl-sn-glycero-3-phosphocholines	163
Nos. 3,4 Special Issue: Fluorescence Methods in Membrane Biochemistry	
Introduction	iii
B.R. Lentz (Chapel Hill, NC), Membrane "fluidity" as detected by diphenylhexatriene probes	171
H.J. Pownall and L.C. Smith (Houston, TX), Pyrene-labeled lipids: versatile probes of membrane dynamics in vitro and in living cells	191
D.A. Pink (Antigonish, Canada), Perturbing probes and the study of lipid-protein bilayer membranes	213
J.M. Beechem (Urbana, IL), A second generation global analysis program for the recovery of complex inhomogeneous fluorescence decay kinetics	237
A.G. Palmer III and N.L. Thompson (Chapel Hill, NC), Fluorescence correlation spectroscopy for detect-	
ing submicroscopic clusters of fluorescent molecules in membranes	253
T.P. Burghardt (Rochester, MN), Polarized fluorescent emission from probes near dielectric interfaces	271
Subject Index — Volume 50	289
Author Index — Volume 50	293
Contents — Volume 50	205

